Acknowledgement:

* <https://hackernoon.com/14-patterns-to-ace-any-coding-interview-question-c5bb3357f6ed>

1: Sliding Window

* The Sliding Window Pattern is used to perform a required operation on a specific window size of a given array or linked list, such as finding the longest subarray contraining all 1s. Sliding windows start from the 1st element and keep shifting right by one element and adjust the length of the window accoring to the problem that you are solving. In some cases, the window size remains constant and in other cases, the sizes grows or shrinks

Diagram

Description automatically generated

Following are some ways you can identify that the given problem might require a sliding window:

* The problem input is a linear data structure such as a linked list, array, or string
* You’re asked to find the longest/shorted substring, subarray, or a desired value

Common problems you use the sliding window pattern with:

* Maxinum sum subarray of size ‘K’ (easy)
* Longest substring with ‘K’ distinct characters (medium)
* String anagrams (hard)